# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 1650 Arch Street Philadelphia, Pennsylvania 19103-2029





# CERTIFIED MAIL RETURN RECEIPT REQUESTED

June 10, 1999

Mr. Steve Morrow, Project Manager Olin Chemical 1186 Lower River Road Charleston, TN 37310

Mr. Douglas A. Johns, Esquire General Electric Company One Plastics Avenue Pittsfield, MA 01201 Mr. Kevin A. Gaynor, Esquire Vinson & Elkins 1455 Pennsylvania Avenue, N.W. Washington, DC 20004-1008

James A. Vroman, Esquire Jenner & Block One IBM Plaza Chicago, IL 60611-3608

Mr. Charles E. Merrill, Esquire Husch & Eppenberger 100 N. Broadway Suite 1300 St. Louis, MO 63102

Dear Messrs. Morrow, Gaynor, Johns, Vroman and Merrill:

The enclosed collection invoice is submitted to you by the U.S. Environmental Protection Agency (EPA) for payment of the costs outlined therein. This invoice includes an accounting of Focused Feasibility Study oversight costs for Operable Unit (OU) No. 1 incurred by EPA for activities pertaining to the Ordnance Works Site, West Virginia. This invoice is solely for the recovery of EPA's oversight costs. Any fine and/or penalties due will be billed separately.

EPA seeks recovery of the Focused Feasibility Study oversight costs for OU No. 1 contained in the enclosed invoice pursuant to the provisions of the Administrative Order on Consent, Docket No. III-97-110-DC, Section XX.A.

Attached to the enclosed invoice is a Narrative Cost Summary Report entitled, "Focused Feasibility Study Costs for OU No. 1 from 10/20/97 to 03/31/99." The report provides an accounting of Focused Feasibility Study oversight costs for OU No. 1 incurred by the United

States in connection with the site for which EPA seeks reimbursement. The stated amount of \$88,903.80 is due to be paid on or before July 13, 1999. Please make your check payable to:

EPA-Hazardous Substance Superfund

Forward your payment to:

EPA Region III Superfund Accounting P.O. Box 360515 Pittsburgh, PA 15251-6515

If express mail or a messenger service will be used to deliver your payment, the street address for our bank is below:

Mellon Bank
Three Mellon Bank Center, Room 2713
Pittsburgh, PA 15219
Attn: EPA, Region III
P.O. Box 360515

To enable EPA to accurately record receipt of your payment by the established due date, the following information must be included on the face of your payment check:

Site Name/Location: Ordnance Works Site, WV.

Account Number: 03B5BF00

Receivable Account Number: 032999T091

Docket No. III-97-110-DC.

Any questions or problems regarding this billing should be directed to:

Steve Pandza
U.S. Environmental Protection Agency (3PM30)
1650 Arch Street
Philadelphia, PA 19103
(215) 814-5178

Thank you for your cooperation.

Barbare A. Borden

Office of the Comptroller

Enclosures



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

#### 1650 Arch Street Philadelphia, Pennsylvania 19103-2029

#### BILL FOR COLLECTION

Mr. Steve Morrow, Project Manager

Olin Chemical

1186 Lower River Road Charleston, TN 37310

Mr. Douglas A. Johns, Esquire General Electric Company

One Plastics Avenue

Pittsfield, MA 01201

Mr. Kevin A. Gaynor, Esquire

Vinson & Elkins

1455 Pennsylvania Avenue, N.W. Washington, DC 20004-1008

James A. Vroman, Esquire

Jenner & Block One IBM Plaza

Chicago, IL 60611-3608

Mr. Charles E. Merrill, Esquire

Husch & Eppenberger 100 N. Broadway

Suite 1300

St. Louis, MO 63102

BD Number

Date

Amount

032999T091

June 10, 1999

\$88,903.80

Total

\$88,903.80

Description: Recovery of Focused Feasibility Study oversight costs for OU No. 1 from 10/20/97 to 03/31/99 at the Ordnance Works Site, West Virginia pursuant to the Administrative Order On Consent, Docket No. III-90-27-DC, Section XX.A.

Payment Due Date: July 13, 1999

Forward Payment To: EPA, Region III

Superfund Accounting

PO Box 360515

Pittsburgh, PA 15251-6515

Interest will be assessed at the rate of 4.530% from the bill date on any amounts unpaid by the due date.

BD 032999T091 99 T 03W 03B5BF00

Customer Service Hotline: 1-800-438-2474

SECTION 1 - PAGE 1 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

NARRATIVE COST SUMMARY REPORT ORDNANCE WORKS, WV SITE ID = 03 B5

- 1. The United States Environmental Protection Agency has incurred at least \$8,993.03 for Regional Payroll Expenses.
- 2. The United States Environmental Protection Agency has incurred at least \$0.00 for Headquarters Payroll Expenses.
- 3. The United States Environmental Protection Agency has incurred at least \$18,354.00 for Indirect Costs.
- 4. The United States Environmental Protection Agency has incurred at least \$813.78 for Regional Travel Expenses.
- 5. The United States Environmental Protection Agency has incurred at least \$0.00 for Headquarters Travel Expenses.
- 6. The United States Environmental Protection Agency has incurred costs of at least \$21,042.25 for Environmental Services
  Assistance Teams (ESAT) contract expenditures. The total represents the amount spent under the Lockheed Env Systems & Tech Co Contract.
- 7. The United States Environmental Protection Agency has incurred costs of at least \$1,369.10 for Interagency Agreement (IAG) Costs contract expenditures. The total represents the amount spent under the U.S. Army Cors Of Engineers Contract.
- 8. The United States Environmental Protection Agency has incurred costs of at least \$4,098.15 for Interagency Agreement (IAG)
  Costs contract expenditures. The total represents the amount spent under the U.S Army Corp Of Engineers Contract.
- 9. The United States Environmental Protection Agency has incurred costs of at least \$17,757.49 for Site Assessment Technical Assistance contract expenditures. The total represents the amount spent under the Roy F. Weston, Inc. Contract.
- 10. The United States Environmental Protection Agency has incurred costs of at least \$16,476.00 for State Cooperative Agreement (SCA) Costs contract expenditures. The total represents the amount spent under the State Wv Div Of Natural Resources Cooperative Agreement.

SECTION 2 - PAGE 1 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ITEMIZED COST SUMMARY REPORT ORDNANCE WORKS, WV SITE ID = 03 B5

REGIONAL PAYROLL COSTS	8,993.03
HEADQUARTERS PAYROLL COSTS	0.00
EPA INDIRECT COSTS	18,354.00
REGIONAL TRAVEL COSTS	813.78
HEADQUARTERS TRAVEL COSTS	0.00
ENVIRONMENTAL SERVICES ASSISTANCE TEAMS (ESAT)	
LOCKHEED ENV SYSTEMS & TECH CO (68-D6-0002)	21,042.25
INTERAGENCY AGREEMENT (IAG) COSTS	
U.S. ARMY CORS OF ENGINEERS (DW96943750)	1,369.10 4,098.15
SITE ASSESSMENT TECHNICAL ASSISTANCE	
ROY F. WESTON, INC. (68-S5-3002)	17,757.49
STATE COOPERATIVE AGREEMENT (SCA) COSTS	
WV DIV OF NATURAL RESOURCES (99340301)	16,476.00
TOTAL SITE COSTS:	\$ 88,903.80
	==========

SECTION 3 - PAGE 1 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

### REGIONAL PAYROLL COSTS ORDNANCE WORKS, WV SITE ID = 03 B5

Employee Name	FY	PP	Office Code	Payroll Hours	Payroll Amount
GOLDMAN, ANDREW S. ATTORNEY ADVISOR (GENERAL)	1998	23	03K	1.00	45.37
				1.00	45.37
JAFOLLA, NANCY R. RIOS, NANCY TOXICOLOGIST	1998 1998 1998 1998	04 05 17 19	03W 03W 03W	6.00 7.00 7.00 11.00	204.53 238.62 253.11 397.72
~				31.00	1,093.98
LUDZIA, PETER J. ENVIRONMENTAL ENGINEER	1998 1998 1998 1998	03 04 06 20	03W 03W 03W	4.00 5.50 3.00 2.50	181.84 250.05 140.01 126.16
				15.00	698.06
RUNDELL, BRUCE M. GEOLOGIST	1998 1998	05 18	03W 03W	10.00 5.00  15.00	394.88 202.90  597.78
WHITTINGTON, MELISSA J. ENVIRONMENTAL SCIENTIST	1998 1998 1998 1998 1998 1998 1998 1998	02 03 04 05 06 07 08 09 10 11 12 13 14 15 16	03W 03W 03W 03W 03W 03W 03W 03W 03W 03W	18.50 31.00 7.00 17.50 21.50 3.50 4.00 0.50 1.00 3.50 4.00 3.50 6.50 3.50 3.50	652.67 1,093.66 254.45 636.22 781.61 127.24 149.46 18.68 37.38 130.79 149.46 130.79 242.88 130.79 112.10 18.68

SECTION 3' - PAGE 2 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

# REGIONAL PAYROLL COSTS ORDNANCE WORKS, WV SITE ID = 03 B5

Employee Name	FY	PP	Office Code	Payroll Hours	Payroll Amount
WHITTINGTON, MELISSA J.	1998 1998 1998 1998 1998	18 19 20 21 22 23	03W 03W 03W 03W 03W	2.00 15.00 15.50 4.50 5.50 4.50	74.73 560.51 579.20 168.16 205.53 168.16
	1998	24	03W	3.50  179.50	134.69  6,557.84
REGIONAL PAYROLL COSTS				241.50	\$8,993.03

SECTION 4 - PAGE 1 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

### HEADQUARTERS PAYROLL COSTS ORDNANCE WORKS, WV SITE ID = 03 B5

Employee Name	FY	PP	Office Code	Payroll Hours	Payroll Amount
5		-	2407 AMARI MINE 19		
HEADQUARTERS PAYROLL COSTS				0.00	\$0.00
				=======	

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REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

EPA INDIRECT COSTS
ORDNANCE WORKS, WV SITE ID = 03 B5

		Fiscal Y	Year Payroll I	Hours Indi	irect Rate	Indirect	Costs
		1998	241.	50	76	18,	354.00
EPA	INDIRECT	COSTS	241.	50		\$ 18,	354.00
			========	==		=======	=====

SECTION 5 - PAGE 2 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

# EPA INDIRECT COSTS ORDNANCE WORKS, WV SITE ID = 03 B5

Employee Name	Fiscal Year	Pay Period	Org Code	Payroll Hours	Ind. Rate	Indirect Costs
GOLDMAN, ANDREW S.	1998	23	03K	1.00	76	76.00
JAFOLLA, NANCY R.	1998 1998 1998 1998	04 05 17 19	03W 03W 03W 03W	1.00 6.00 7.00 7.00 11.00	76 76 76 76	76.00 456.00 532.00 532.00 836.00
LUDZIA, PETER J.	1998 1998 1998 1998	03 04 06 20	03W 03W 03W	4.00 5.50 3.00 2.50	76 76 76 76	304.00 418.00 228.00 190.00
RUNDELL, BRUCE M.	1998 1998	05 18	03W 03W	10.00 5.00 	76 76	760.00 380.00  1,140.00
WHITTINGTON, MELISSA J.	1998 1998 1998 1998 1998 1998 1998 1998	02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18	03W 03W 03W 03W 03W 03W 03W 03W 03W 03W	18.50 31.00 7.00 17.50 21.50 3.50 4.00 0.50 1.00 3.50 4.00 3.50 6.50 3.50 6.50	76 76 76 76 76 76 76 76 76 76 76	1,406.00 2,356.00 532.00 1,330.00 1,634.00 266.00 304.00 266.00 266.00 494.00 266.00 228.00 38.00

SECTION 5 - PAGE 3 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

### EPA INDIRECT COSTS ORDNANCE WORKS, WV SITE ID = 03 B5

Employee Name	• •	Fiscal Year	Pay Period	Org Code	Payroll Hours	Ind. Rate	Indirect Costs
WHITTINGTON,		1998 1998 1998 1998 1998 1998	19 20 21 22 23 24	03W 03W 03W 03W 03W 03W	15.00 15.50 4.50 5.50 4.50 3.50  179.50	76 76 76 76 76 76	1,140.00 1,178.00 342.00 418.00 342.00 266.00
EPA INDIRECT	COSTS				241.50	\$	18,354.00

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REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

REGIONAL TRAVEL COSTS
ORDNANCE WORKS, WV SITE ID = 03 B5

Name	Travel Voucher Number	Treasury Schedule	Treasury Schedule Date	Travel Cost
RUNDELL, BRUCE M. GEOLOGIST	T4395716	A98005	01/07/1998	408.10
			-	408.10
WHITTINGTON, MELISSA J. ENVIRONMENTAL SCIENTIST	T4306455	ACHA97364	12/30/1997	405.68
			-	405.68
REGIONAL TRAVEL COSTS			\$	813.78
			======	======

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REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

HEADQUARTERS TRAVEL COSTS
ORDNANCE WORKS, WV SITE ID = 03 B5

Name	Travel Voucher Number	Treasury Schedule	Treasury Schedule Date	Travel Cost
HEADQUARTERS TRAVEL COSTS				0.00

SECTION 8 - PAGE 1 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### ENVIRONMENTAL SERVICES ASSISTANCE TEAMS (ESAT)

CONTRACTOR : LOCKHEED ENV SYSTEMS & TECH CO

CONTRACT NUMBER : 68-D6-0002

PROJECT OFFICER : COLLEEN K. WALLING

DATES OF SERVICE : FROM :03/01/1998 TO :03/31/1998

SUMMARY OF SERVICE : SEE CONTRACTOR INFO. WHICH FOLLOWS LIST OF VOUCHERS

TOTAL COSTS : \$ 21,042.25

DOCUMENTATION: Copies of Applicable Paid Vouchers and Treasury Schedules

VOUCHER NUMBER	VOUCHER DATE	VOUCHER AMOUNT	TREASUR NUMBER	Y SCHEDULE AND DATE	SITE AMOUNT	ANNUAL ALLOCATION
06136653	04/10/1998	417,563.94	R8701	06/11/1998	8,688.72	12,353.53
					8,688.72	12,353.53

SECTION 8 - PAGE 2 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

ENVIRONMENTAL SERVICES ASSISTANCE TEAMS (ESAT)

CONTRACTOR

: LOCKHEED ENV SYSTEMS & TECH CO

CONTRACT NUMBER : 68-D6-0002

VOUCHER NUMBER	SCHEDULE NUMBER	RATE TYPE	ALLOCATION RATE	
06136653	R8701	National- Provisional	1.421789	
ontractor Information				

Co

WORK ASSIGNMENT NO.: 03-98-201

#### DESCRIPTION OF WORK:

Eleven aqueous samples from the ORDNANCE WORK (REQ98081) site were analyzed for the presence of volatile organic compounds amenable to purge and trap and identifiable by mass spectrometry. The asamples were collected January 27, 28, 29 and 30, 1998. These samples were analyzed February 4 and 5, 1998 using a concolidated method derived from EPA Methods SDWA 524.2, NPDES 624, RCRA 8260 and the Superfund CLP Statement of Work.

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REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### INTERAGENCY AGREEMENT (IAG) COSTS

FEDERAL AGENCY : U.S. ARMY CORS OF ENGINEERS

IAG NUMBER : DW96943750

PROJECT OFFICER : MELISSA WHITTINGTON

DATES OF SERVICE : FROM :09/01/1997 TO :03/31/1998

SUMMARY OF SERVICE : SEE CONTRACTOR INFO. WHICH FOLLOWS LIST OF VOUCHERS

TOTAL COSTS : \$ 1,369.10

DOCUMENTATION : Copies of Applicable Paid Vouchers and Treasury Schedules

VOUCHER	VOUCHER	VOUCHER	TREASUF	RY SCHEDULE	SITE	
NUMBER	DATE	AMOUNT	NUMBER	AND DATE	AMOUNT	
01501407	11/01/1997	326.92	A98014	01/16/1998	326.92	
01501660	01/15/1998	1,042.18	A98048	02/19/1998	1,042.18	
					1,369.10	

#### Footnotes

#### Contractor Information

INTERAGENCY AGREEMENT (IAG) No.:

DW96943750-01-0

PERIOD OF PERFORMANCE:

09/12/94 to 12/31/97

SUMMARY OF WORK:

Remedial Investigation/Feasibility Study (RI/FS)

Oversight, Second Operable Unit

<sup>(1)</sup> Based on the review of the Monthly Progress Reports the costs paid on vouchers no. 01501407 and 01501660 are for work efforts associated with oversight of the Focused Feasibility Study. These costs should have been billed and paid under Interagency Agreement No. DW96943751 which was amended to include oversight of the Focused Feasbility Study.

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REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### INTERAGENCY AGREEMENT (IAG) COSTS

CONTRACTOR : U.S. ARMY CORS OF ENGINEERS

CONTRACT NUMBER : DW96943750

#### Task 1: Background Document Review:

 USACE will perform a preliminary review of the background information to develop a basic understanding of the Site and prior response actions.

#### Task 2: Prepare Work Plan:

- After performing the preliminary review of the background information, USACE will develop a work plan including a project schedule and estimated budget.

#### Task 3: Site Visit:

- USACE will visit the site for one day to become familiar with the general site conditions.

#### Task 4: Meetings With EPA:

- USACE shall be available for and assist in conducting meetings with EPA or with EPA and representatives of the Potentially Responsible Parties.

### Task 5: Review of PRP RI/FS Work Plan and Other Associated RI/FS Planning Documents:

- USACE will review the PRPs revised work plan to ascertain whether said document adequately outlines the remeidal activities necessary to identify possible sources of contamination, characterizes the

SECTION 9 - PAGE 3 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### INTERAGENCY AGREEMENT (IAG) COSTS

CONTRACTOR : U.S. ARMY CORS OF ENGINEERS

CONTRACT NUMBER : DW96943750

nature and extent of contamination, and establishes the risk posed to human health and the environment by contamination at this site.

#### Task 6: Field Oversight/Split Sampling:

- As directed by the EPA RPM, USACe shall oversee field activities conducted by the PRPs contractor;
- USACE will prepare field trips reports describing the investigatory, sampling activities obeserved in the field;
- USACE will be responsible for communicating directly with the PRPs contractor regarding any changes in schedule with respect to sampling activities planned at the Site.

#### Task 7: Review of Interim Reports and/or Evaluation of data:

At the request of the EPA RPM, USACE may be called upon to review and evaluate interim reports and technical field laboratory data submitted by the PRPs to ensure that activities are being conducted in accordance with the PRPS approved work plan documents and the AOC.

#### Task 8: Review of Remedial Investigation:

USACE shall prepare an evaluation of the PRP's draft RI report.

#### Task 9: Review of Feasibility Study:

- USACE shall prepare an evaluation of the PRP's draft FS report.

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REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1
COSTS FROM 10/20/97 THRU 3/31/99

#### INTERAGENCY AGREEMENT (IAG) COSTS

CONTRACTOR

: U.S. ARMY CORS OF ENGINEERS

CONTRACT NUMBER

: DW96943750

#### Task 10: Technical Assistance:

- Throughout the life of the project, USACE will provide technical assistance to the EPA RPM on an as needed basis.

#### Task 11: Project Closeout:

 Once all other tasks have been completed, USACE will prepare a final project closeout report, detailing project activities and costs incurred.

#### IAG AMENDMENT 2: (Signed by EPA on March 15, 1996)

The purpose of this amendment is to provide additional funding to allow for oversight of field activities and technical assistance which is necessary for successful oversight of the PRP conducted Removal Action at this Site, OU2. Oversight of removal activities was not accounted for in the original SOW for this existing IAG (#DW96943750-01-0). This amendment addes funding and extends the project and budget period to December 31, 1996.

#### SUPPORTING DOCUMENTATION:

Copy of Interagency Agreement #DW96943750-01-0 and Statement of Work; Copies of Interagency Agreement Amendments #1 through 4

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REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### INTERAGENCY AGREEMENT (IAG) COSTS

FEDERAL AGENCY : U.S ARMY CORP OF ENGINEERS

IAG NUMBER : DW96943751

PROJECT OFFICER : MELISSA WHITTINGTON

DATES OF SERVICE : FROM :09/01/1997 TO :06/30/1998

SUMMARY OF SERVICE : SEE CONTRACTOR INFO. WHICH FOLLOWS LIST OF VOUCHERS

TOTAL COSTS : \$ 4,098.15

DOCUMENTATION: Copies of Applicable Paid Vouchers and Treasury Schedules

VOUCHER	VOUCHER	VOUCHER	TREASUR	RY SCHEDULE	SITE
NUMBER	DATE	AMOUNT	NUMBER	AND DATE	AMOUNT
01501597	01/01/1998	2,894.81	A98056	02/27/1998	2,894.81
36000045	05/01/1998	338.07	A98169	06/22/1998	338.07
3600163	06/01/1998	865.27	A98188	07/09/1998	865.27
					4.098.15

#### Contractor Information

INTERAGENCY AGREEMENT #:DW96943751

PERIOD OF PERFORMANCE: 09/12/94 TO 12/31/98

SUMMARY OF WORK: Remedial Design Oversight (RD) (OU1)

EPA has requested that the US Army Corps of Engineers (USACE) take on the oversight work that was previously being done by a contractor in our region. Currently, a number of tasks have already been completed by the previous contractor. The work will include, among other things, reviewing the relevant background documents and completing the remaining RD oversight tasks. Four phases of work are planned for OUI, however only Phase I and Phase II will be included as part of this particular oversight assignment. The following tasks will be conducted to meet the objectives of the RD oversight project:

Task 1: Background Document Review:

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REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### INTERAGENCY AGREEMENT (IAG) COSTS

CONTRACTOR

: U.S ARMY CORP OF ENGINEERS

CONTRACT NUMBER

: DW96943751

- USACE will perform a preliminary review of the background information to develop a basic understanding of the site and prior response actions.

#### Task 2: Prepare Work Plan:

- After performing the preliminary review of the background information, the USACE will develop a work plan including a project schedule and estimated budget.

#### Task 3: Site Visit:

- USACE will visit the site for one day to become familiar with the general site conditions;
- USACE will prepare and submit to EPA a brief trip report that documents the site visit activities and summarizes the current site conditions.

#### Task 4: Meeting with EPA:

 Shall be available for and assist in conducting meeting with EPA or with EPA and representatives of the Potentially Responsible Parties.

#### Task 5: Review of PRP reports:

 USACE may be required to review any or all of work plans, reports, sample results submitted by the PRP's. SECTION 10 - PAGE 3 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### INTERAGENCY AGREEMENT (IAG) COSTS

CONTRACTOR

: U.S ARMY CORP OF ENGINEERS

CONTRACT NUMBER

: DW96943751

#### Task 6: Field Oversight/Split Sampling:

 A Remedial Design Work Plan will be submitted by the PRPs following the bioremediation treatability studies.

#### Task 7: Technical Assistance:

 USACE will provide technical assistance to the EPA RPM on an as-needed basis.

#### Task 8: Project Closeout:

 Once all other tasks have been completed, the USACE will prepare a final project closeout report, detailing project activities and cost incurred.

### INTERAGENCY AGREEMENT AMENDMENT NO. 4: THIS AMENDMENT CHANGED THE SCOPE OF WORK FOR THIS AGREEMENT AS FOLLOWS:

The purpose of this amendment to the Scope of Work for this existing oversight IAG with the Corps of Engineers - Nashville District (COE) is to describe the changes in the projected oversight needs for the Morgantown Ordnance Works Site, First Operable Unit (OU1), located in Morgantown, West Virginia. Up until this point, the COE has provided oversight for the first phase of a Potentially Responsible Party (PRP)-lead Remedial Design. Phase I Remedial Design has consisted primarily of Bioremediation Treatability Studies.

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REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### INTERAGENCY AGREEMENT (IAG) COSTS

CONTRACTOR

: U.S ARMY CORP OF ENGINEERS

CONTRACT NUMBER : DW96943751

At this time, based on recent treatability study data, bioremediation does not appear to be capable of treating the contaminated soils at OU1 to achieve the current cleanup standard (78 ppm total cPAHS) within a reasonable time frame. In addition, the contingency remedy selected in the 1989 ROD (soil washing) appears to be equally infeasible. As a result, the PRPs have proposed to do a Focused Feasibility Study (FFS) which will evaluate alternatives that can be implemented in an expedited fashion.

EPA and the PRPs are in the process of negotiating an Administrative Order on Consent (AOC) for an FFS which would include:
(1) detailing the work to be performed by the PRPs on the FFS and (2) suspending the activities under the existing Administrative Order for Remedial Design/Remedial Action ("Unilateral Order" or "UAO").

This SOW amendment will expand upon Task 2 (Work Plan Preparation), Task 4 (Meetings with EPA), and Task 5 (Review of PRP Reports). All other tasks in the original SOW still pertain to this revised oversight project and shall remain the same.

The following revisions to the above mentioned tasks will be conducted to meet the revised objectives of the project:

#### Task 2 - Prepare a Revised Work Plan

At this time, COE staff has already reviewed background documentation on the site and are familiar with the current site conditions. COE have experience with Feasibility Studies and are aware of the approximate level of effort that will be necessary to oversee

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REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### INTERAGENCY AGREEMENT (IAG) COSTS

CONTRACTOR

: U.S ARMY CORP OF ENGINEERS

CONTRACT NUMBER

: DW96943751

the FFS. After reviewing this SOW amendment, COE will develop a revised work plan. The revised work plan will be submitted as a final document. Revisions to the revised work plan are not anticipated.

#### Task 4 - Meetings with EPA

COE shall be available for and assist in conducting meetings with EPA or with EPA and representatives of the PRPs. After each meeting, COE will submit a meeting summary documenting what transpired.

#### Task 5 - Review of PRP Reports and Other Deliverables

This task will not substantially change. The COE will continue to review PRP prepared reports and provide comments to EPA. However, the content of such reports/documents will now focus on feasibility study activities.

#### SUPPORTING DOCUMENTATION:

Interagency Agreement No. DW96943751, Statement of Work, and Interagency Agreement Amendments 1, 2, 3 and 4

SECTION 11 - PAGE 1 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### SITE ASSESSMENT TECHNICAL ASSISTANCE

CONTRACTOR : ROY F. WESTON, INC.

CONTRACT NUMBER : 68-S5-3002

PROJECT OFFICER : JOAN M. HENRY

DATES OF SERVICE : FROM :11/22/1997 TO :07/24/1998

SUMMARY OF SERVICE : SEE CONTRACTOR INFO. WHICH FOLLOWS LIST OF VOUCHERS

TOTAL COSTS : \$ 17,757.49

DOCUMENTATION: Copies of Applicable Paid Vouchers and Treasury Schedules

VOUCHER NUMBER	VOUCHER DATE	VOUCHER AMOUNT	TREASU NUMBER		SITE AMOUNT	ANNUAL ALLOCATION
i	01/15/1998	867,579.25	R8373	02/18/1998	1,658.61	1,106.86
5	02/13/1998	259,168.48	R8458	03/17/1998	91.44	61.02
	02/13/1998	447,621.49	R8458	03/17/1998	706.21	471.28
l	03/13/1998	198,515.51	R8533	04/10/1998	24.15	16.12
)	03/13/1998	687,126.42	R8533	04/10/1998	4,080.32	2,722.97
KIS	04/20/1998	737,600.58	R8634	05/18/1998	1,081.13	721.48
i	05/18/1998	626,001.90	R8709	06/15/1998	469.77	313.50
	05/18/1998	626,001.90	R8709	06/15/1998	610.00	407.08
i	06/12/1998	59,097.87	R8787	07/13/1998	2,365.92	1,578.88
	06/12/1998	749,029.54	R8787	07/13/1998	511.71	341.49
į.	07/20/1998	18,880.96	R8875	08/17/1998	-925.38	-617.54
)	07/20/1998	762,544.43	R8875	08/17/1998	-30.81	-20.56
C.	07/18/1998	727,194.04	R8959	09/17/1998	7.10	4.74
				-	10,650.17	7,107.32

SECTION 11 - PAGE 2 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

#### ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### SITE ASSESSMENT TECHNICAL ASSISTANCE

CONTRACTOR

: ROY F. WESTON, INC.

CONTRACT NUMBER : 68-S5-3002

VOUCHER NUMBER	SCHEDULE NUMBER	RATE TYPE	ALLOCATION RATE
45	R8373	National- Provisional	0.667342
46	R8458	National - Provisional	0.667342
47	R8458	National - Provisional	0.667342
48	R8533	National - Provisional	0.667342
49	R8533	National - Provisional	0.667342
53	R8634	National - Provisional	0.667342
55	R8709	National- Provisional	0.667342
55	R8709	National - Provisional	0.667342
56	R8787	National - Provisional	0.667342
57	R8787	National - Provisional	0.667342
58	R8875	National - Provisional	0.667342
59	R8875	National - Provisional	0.667342
60	R8959	National - Provisional	0.667342

Contractor Information

TECHNICAL DIRECTION DOCUMENT (TDD) NO.: 03-9712-0002

PERIOD OF PERFORMANCE:

12/09/97 to 12/31/97

#### DESCRIPTION OF WORK:

Sample 6 monitoring wells. Obtain analytical analyses of these 6 ground water samples. Parameters: BNAs, Heavy Metals, & VOCs.

TDD NO. 03-9712-0002A: This TDD amends 03-9712-0002

SECTION 11 - PAGE 3 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### SITE ASSESSMENT TECHNICAL ASSISTANCE

CONTRACTOR

: ROY F. WESTON, INC.

CONTRACT NUMBER

: 68-S5-3002

Justification: Additional hours added because a very detailed sampling plan was needed to be developed for the PRP/split sampling that was to be performed.

TDD NO.:

03-9801-0046

PERIOD OF PERFORMANCE: 01/06/98 to 04/30/98

#### DESCRIPTION OF WORK:

Continue work performed under TDD 9712-0002. Make revisions to work plan (previously developed by SATA). Complete development of onsite monitoring wells. Arrange for disposal of purged water from development procedures. Repair outer and inner casing lids, collect split samples.

TDD NO. 03-9801-0046A: This TDD amends TDD No. 03-9801-0046

Justification: Additional hours needed to cover additional oversight and split sampling due to the problems encountered by the PRPs contractor. This involves low well yields and the purging/sampling process taking longer than anticipated. A more detailed trip report will also be required.

TDD NO. 03-9801-0046B: This TDD amends TDD No. 03-9801-0046A

SECTION 11 - PAGE 4 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### SITE ASSESSMENT TECHNICAL ASSISTANCE

CONTRACTOR

: ROY F. WESTON, INC.

CONTRACT NUMBER

: 68-S5-3002

Justification: Additional hours needed to complete trip report which includes scanning a map and to evaluate split sampling data.

TDD NO.:

03-9801-L001

PERIOD OF PERFORMANCE: 01/26/98 to 02/26/98

#### DESCRIPTION OF WORK:

Analytical Service - Arrange for analysis of 1 water sample for TCL organics, 1 water sample for TAL metals.

This TDD is in conjunction with TDD No. 03-9801-0046.

SUPPORTING DOCUMENTATION: Copies of Technical Direction Documents and Acknowledgments of Completion

SECTION 12 - PAGE 1 REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### STATE COOPERATIVE AGREEMENT (SCA) COSTS

STATE AGENCY : WV DIV OF NATURAL RESOURCES

SCA NUMBER : 99340301

PROJECT OFFICER : ALLAN HOLLIS

: FROM :10/01/1997 TO :03/31/1999 DATES OF SERVICE

: SEE CONTRACTOR INFO. WHICH FOLLOWS LIST OF VOUCHERS SUMMARY OF SERVICE

16,476.00 TOTAL COSTS : S

DOCUMENTATION : Copies of Applicable Paid Vouchers and Treasury Schedules

VOUCHER	VOUCHER	VOUCHER	TREASURY	Y SCHEDULE	SITE
NUMBER	DATE	AMOUNT	NUMBER	AND DATE	AMOUNT
556000763 556000763 556000763 556000763 556000763 556000763 556000763 556000763	10/22/1997 11/18/1997 12/17/1997 12/19/1997 01/23/1998 02/23/1998 03/11/1998 04/21/1998 05/20/1998 07/20/1998	1,764.00 1,746.00 5,532.00 1,181.00 9,050.00 5,622.00 6,740.00 4,112.00 6,209.00 3,699.00	G97296A G97324A G97352A G97356A G98026A G98056A G98072A G98111A G98141A G98202A G98236A	10/23/1997 11/20/1997 12/18/1997 12/22/1997 01/26/1998 02/25/1998 03/13/1998 04/21/1998 05/21/1998 07/21/1998	795.00 1,731.00 1,365.00 1,181.00 2,515.00 2,320.00 464.00 1,069.00 2,616.00 1,609.00 811.00

Contractor Information

EPA ASSISTANCE AGREEMENT NO.: V 993403-01-0

10/01/95 to 09/30/97 PERIOD OF PERFORMANCE:

DESCRIPTION OF WORK: MORGANTOWN ORDNANCE WORKS, RI/FS OU#2

Remedial Investigation/Feasibility Study

SECTION 12 - PAGE 2

REPORT DATE: 06/08/1999

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

ORDNANCE WORKS, WV SITE ID = 03 B5

FOCUSED FEASIBILITY STUDY OU #1 COSTS FROM 10/20/97 THRU 3/31/99

#### STATE COOPERATIVE AGREEMENT (SCA) COSTS

CONTRACTOR : WV DIV OF NATURAL RESOURCES

CONTRACT NUMBER : 99340301

#### Tasks:

- Review, comment and concur on all documents and relevant correspondence for all phases of the RI/FS activities submitted by the lead agency, their contractors, or any other entity involved with the remediation effort at the site.
- Split and analyze samples with EPA or other contractors when deemed necessary.
- Conduct investigative and /or confirmation sampling events when deemed necessary.
- Have a representative attend meetings concerned with RI/FS activities for the site, including, but not limited to, planning meetings, design strategy meetings, public hearings, and Advisory Group meetings.
- Have a representative conduct site visits as deemed appropriate or necessary for the RI/FS effort.
- Provide oversight for field activities when deemed appropriate or necessary, or at EPA-III's request.
- Provide public relations support when necessary for public meetings, press inquiries, press releases, or similar activities.

SUPPORTING DOCUMENTATION: Copy of EPA Assistance Agreement No. V993403-01 and Statement of Work; Copy of Assistance Agreement

#### CERTIFIED BY FINANCIAL MANAGEMENT OFFICE

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